AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

- 1. (Cancelled)
- 2. (Currently Amended) The manufacturing method of the optical communication module according to claim 7 [[1]], further comprising:

housing a second optical device within the tapered through-hole between the first and second ends after housing the first optical device, the second optical device having a diameter larger than the diameter of the first optical device and smaller than the diameter of the optical transmitter.

3. (Currently Amended) A manufacturing method of an optical communication module that optically couples an optical device and an optical transmitter, comprising:

providing a double-ended tapered through-hole having a constriction portion inside of a substrate, a first opening in a first side of the substrate, and a second opening in a second side of the substrate so as to be opened bi-directionally;

housing a first optical device within the double-ended tapered through-hole between the constriction portion and the first opening, the first optical device having an optical transmission point substantially coincident with a geometrical center of the double-ended tapered through-hole and having a smaller diameter than a diameter of the first opening of the double-ended tapered through-hole;

housing a second optical device within the double-ended tapered through-hole between the constriction portion and the second opening, the second optical device having a diameter smaller than the diameter of the second opening; and

inserting an optical transmitter into the second opening of the double-ended tapered through-hole after housing the second optical device, the optical transmitter having a diameter larger than a diameter of the second optical device and smaller than a diameter of the second opening of the double-ended tapered through-hole, [[.]]

wherein providing the double-ended tapered through-hole comprises:

irradiating the substrate with a femto-second pulse laser while relatively moving the femto-second pulse laser in an axial direction of the double-ended tapered throughhole; and

removing a region of the substrate changed by the irradiation of the femto-

second pulse laser so that the double-ended tapered through-hole emerges.

- 4. (Cancelled)
- 5. (Currently Amended) The manufacturing method of the optical communication module according to claim 7 [[1]], further comprising:

forming an electrode wiring for conduction with an electrode provided in a part of the first optical device before housing the first optical device.

6. (Currently Amended) The manufacturing method of the optical communication module according to claim 7 [[1]], further comprising:

forming an electrode wiring for conduction with an electrode provided in the first optical device after housing the first optical device.

7. (Currently Amended) <u>A manufacturing method of an optical communication module that optically couples at least one optical device and an optical transmitter, comprising:</u>

providing a tapered through-hole in a substrate, the tapered through-hole having a first end in a first side of the substrate and a second end in a second side of the substrate, the first end being smaller in diameter than the second end;

housing a first optical device within the tapered through-hole between the first and second ends, the first optical device having an optical transmission point substantially coincident with a geometrical center of the tapered through-hole; and

inserting an optical transmitter having a larger diameter than a diameter of the optical device in the tapered through-hole housing the optical device, thereby aligning a core of the optical transmitter with the geometrical center of the tapered through-hole,

The manufacturing method of the optical communication module according to claim 1, wherein providing the tapered through-hole comprises:

irradiating the substrate with a femto-second pulse laser while relatively moving the femto-second pulse laser in an axial direction of the tapered through-hole; and

removing a region of the substrate changed by the irradiation of the femtosecond pulse laser so that the tapered through-hole emerges. 8. (Currently Amended) The manufacturing method of the optical communication module according to claim 7 [[1]], comprising:

fixing at least one of a periphery of the first optical device and a periphery of the optical transmitter with resin after at least one of housing the first optical device and inserting the optical transmitter.

- 9. (Currently Amended) The manufacturing method of the optical communication module according to claim 7 [[1]], wherein, in the step of housing the first optical device, the first optical device includes a side surface contacting an internal wall of the tapered through-hole at an inclination corresponding to a tapered shape of the internal wall of the tapered through-hole at a contacting position.
- 10. (Previously Presented) The manufacturing method of the optical communication module according to claim 9,

wherein the first optical device contacts the internal wall of the tapered throughhole in a vicinity of a bottom surface of the substrate when housed in the tapered through-hole.

11. (Currently Amended) An electronic apparatus comprising the optical communication module manufactured by the manufacturing method of the optical communication module according to claim 7 [[1]].

12-13. (Cancelled)